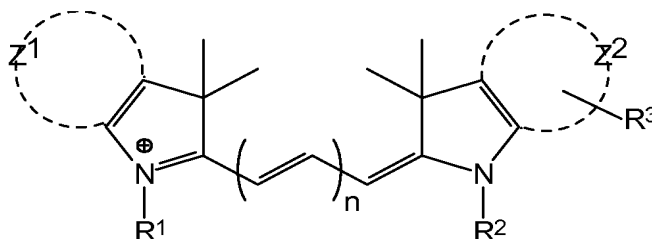


Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A matched set of fluorescent dyes comprising two or more different fluorescent dyes of formula (I):

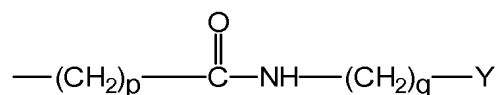


(I)

wherein n is different for each said dye and is 1, 2, or 3;

Z¹ and Z² independently represent the carbon atoms necessary to complete a phenyl or naphthyl ring system;

one of groups R¹ and R² is the group:



where Y is a target bonding group and in each dye of the set of dyes is the same and is selected from the group consisting of maleimido groups and iodoacetamido groups;

remaining group R^1 or R^2 is selected from $-(CH_2)_4-W$ or $-(CH_2)_r-H$;

group R^3 is hydrogen, except when either R^1 or R^2 is $-(CH_2)_r-H$, in which case R^3 is W;

W is selected from sulphonic acid and sulphonate;

p is an integer from 3 to 6;

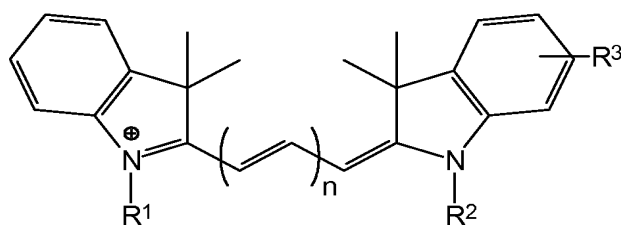
q is 2 or 3; and

r is an integer from 1 to 5;

and salts thereof;

and further wherein when n of two of said dyes differs by +1, one of p, q and r of said two dyes differs by -1.

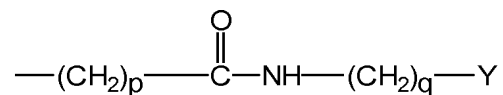
Claim 2 (currently amended): A matched set of fluorescent dyes comprising at least two different fluorescent dyes of formula (II):



(II)

wherein n is different for each said dye and is 1, 2, or 3;

one of groups R^1 and R^2 is the group:



where Y is a target bonding group and in each dye of the set of dyes is the same and is selected from the group consisting of maleimido groups and iodoacetamido groups;

remaining group R^1 or R^2 is selected from $-(CH_2)_4-W$ or $-(CH_2)_r-H$;

group R^3 is hydrogen, except when either R^1 or R^2 is $-(CH_2)_r-H$, in which case R^3 is W;

W is selected from sulphonic acid and sulphonate;

p is an integer from 3 to 6;

q is 2 or 3; and

r is an integer from 1 to 5;

and salts thereof;

and further wherein when n of two of said dyes differs by +1, one of p, q and r of said two dyes differs by -1.

Claim 3 (previously presented): The matched set of dyes of claim 1 or claim 2

comprising at least two different fluorescent dyes wherein:

n is 1 or 2;

p is 4 or 5;

q is 2 or 3; and

r is 1, 2 or 3.

Claim 4 (cancelled)

Claim 5 (currently amended): The matched set of dyes of ~~claim 4~~ claim 1 or claim 2, wherein in each said dye Y is a maleimido group.

Claim 6 (previously presented): The matched set of dyes of claim 1 or claim 2, wherein said salts are selected from salts K^+ , Na^+ , NH_4^+ , or containing R_3NH^+ and R_4N^+ wherein R is C_1 to C_4 alkyl.

Claim 7 (currently amended): A matched set of dyes selected from the group consisting of:

Set 1

1-(6-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxohexyl)-2-[(1*E*,3*E*)-3-(1-ethyl-3,3-dimethyl-5-sulpho-1,3-dihydro-2*H*-indol-2-ylidene)prop-1-enyl]-3,3-dimethyl-3*H*-indolium (Compound I); and
1-(6-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxohexyl)-3,3-dimethyl-2-[(1*E*,3*E*,5*E*)-5-(1,3,3-trimethyl-5-sulpho-1,3-dihydro-2*H*-indol-2-ylidene)penta-1,3-dienyl]-3*H*-indolium (Compound II);

Set 2

1-(6-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxohexyl)-2-[(1*E*,3*E*)-3-(1-propyl-3,3-dimethyl-5-sulpho-1,3-dihydro-2*H*-indol-2-ylidene)prop-1-enyl]-3,3-dimethyl-3*H*-indolium (Compound III); and

1-(6-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxohexyl)-3,3-dimethyl-2-[(1*E*,3*E*,5*E*)-5-(1-ethyl-3,3-trimethyl-5-sulpho-1,3-dihydro-2*H*-indol-2-ylidene)penta-1,3-dienyl]-3*H*-indolium (Compound IV);

Set 3

1-(6-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxohexyl)-2-[(1*E*,3*E*)-3-(1-ethyl-3,3-dimethyl-5-sulpho-1,3-dihydro-2*H*-indol-2-ylidene)prop-1-enyl]-3,3-dimethyl-3*H*-indolium (Compound I); and

1-(5-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxopentyl)-3,3-dimethyl-2-[(1*E*,3*E*,5*E*)-5-(1-ethyl-3,3-trimethyl-5-sulpho-1,3-dihydro-2*H*-indol-2-ylidene)penta-1,3-dienyl]-3*H*-indolium (Compound V);

Set 4

1-(6-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxohexyl)-2-[(1*E*,3*E*)-3-(3,3-dimethyl(1-sulpho-butyl)-1,3-dihydro-2*H*-indol-2-ylidene)prop-1-enyl]-3,3-dimethyl-3*H*-indolium (Compound VI); and

1-(5-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxopentyl)-3,3-dimethyl-2-[(1*E*,3*E*,5*E*)-5-(3,3-dimethyl-(1-sulpho-butyl)-1,3-dihydro-2*H*-indol-2-ylidene)penta-1,3-dienyl]-3*H*-indolium (~~Compound VII~~); (Compound VII);

Set 5

1-(6-{[3-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)propyl]amino}-6-oxohexyl)-2-[(1*E*,3*E*)-3-(1-ethyl-3,3-dimethyl-5-sulpho-1,3-dihydro-2*H*-indol-2-ylidene)prop-1-enyl]-3,3-dimethyl-3*H*-indolium (Compound VIII); and

1-(6-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxohexyl)-3,3-dimethyl-2-[(1*E*,3*E*,5*E*)-5-(1-ethyl-3,3-trimethyl-5-sulpho-1,3-dihydro-2*H*-indol-2-ylidene)penta-1,3-dienyl]-3*H*-indolium (Compound IV); and

Set 6

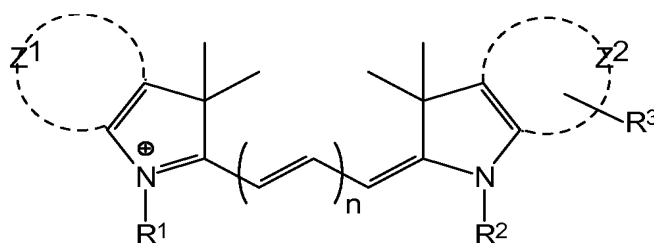
1-(6-{[3-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)propyl]amino}-6-oxohexyl)-2-[(1*E*,3*E*)-3-(3,3-dimethyl(1-sulpho-butyl)-1,3-dihydro-2*H*-indol-2-ylidene)prop-1-enyl]-3,3-dimethyl-3*H*-indolium (Compound IX); and

1-(6-{[2-(2,5-dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl]amino}-6-oxohexyl)-3,3-dimethyl-2-[(1*E*,3*E*,5*E*)-5-(3,3-dimethyl-(1-sulpho-butyl)-1,3-dihydro-2*H*-indol-2-ylidene)penta-1,3-dienyl]-3*H*-indolium (Compound X).

Claims 8-14 (cancelled)

Claim 15 (withdrawn, currently amended): A method for labelling one or more proteins in a sample, the method comprising:

- i) adding to a liquid sample containing said one or more proteins a fluorescent dye selected from a matched set of fluorescent dyes each dye in said set having the formula (I):

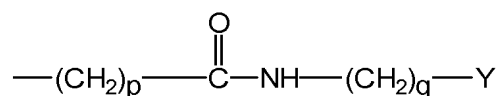


(I)

wherein n is different for each said dye and is 1, 2, or 3;

Z^1 and Z^2 independently represent the carbon atoms necessary to complete a phenyl or naphthyl ring system;

one of groups R^1 and R^2 is the group:



where Y is a target bonding group and in each dye of the set of dyes is the same and is selected from the group consisting of maleimido groups and iodoacetamido groups;

remaining group R^1 or R^2 is selected from $-(CH_2)_4-W$ or $-(CH_2)_r-H$;

group R^3 is hydrogen, except when either R^1 or R^2 is $-(CH_2)_r-H$, in which case R^3 is W;

W is selected from sulphonic acid and sulphonate;

p is an integer from 3 to 6;

q is 2 or 3; and

r is an integer from 1 to 5;

and salts thereof;

and further wherein when n of two of said dyes differs by +1, one of p, q and r of said two dyes differs by -1; and

- ii) incubating said dye with said sample under conditions suitable for labelling said one or more proteins.

Claim 16 (withdrawn): The method of claim 15, wherein each of Z^1 and Z^2 represents the carbon atoms necessary to complete a phenyl ring system.

Claim 17 (withdrawn): The method of claim 15, wherein:

n is 1 or 2;

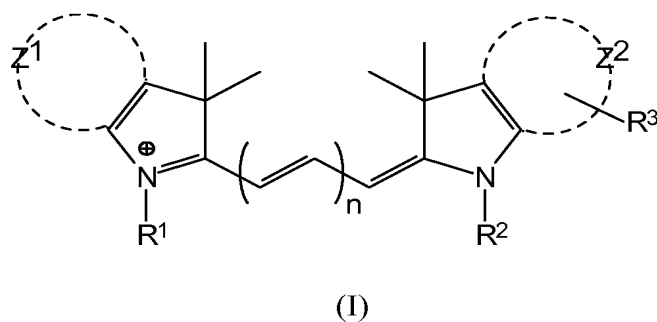
p is 4 or 5;

q is 2 or 3; and

r is 1, 2 or 3.

Claim 18 (cancelled)

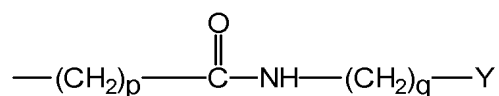
Claim 19 (currently amended): A kit comprising a matched set of fluorescent dyes comprising at least two different fluorescent dyes having the formula (I):



wherein n is different for each said dye and is 1, 2, or 3;

Z^1 and Z^2 independently represent the carbon atoms necessary to complete a phenyl or naphthyl ring system;

one of groups R^1 and R^2 is the group:



where Y is a target bonding group and in each dye of the set of dyes is the same and is selected from the group consisting of maleimido groups and iodoacetamido groups;

remaining group R^1 or R^2 is selected from $-(CH_2)_4-W$ or $-(CH_2)_r-H$;

group R^3 is hydrogen, except when either R^1 or R^2 is $-(CH_2)_r-H$, in which case R^3 is W ;

W is selected from sulphonic acid and sulphonate;

p is an integer from 3 to 6;

q is 2 or 3; and

r is an integer from 1 to 5;

and salts thereof;

and further wherein when n of two of said dyes differs by +1, one of p, q and r of said

two dyes differs by -1.